

From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II  
OF THE PATENT COOPERATION TREATY)  
(PCT Rules 44bis.3(c) and 72.2)

To:

TAJIME & TAJIME  
Room No.201, New-Well-Ikuta Bldg., 26-28, Mita  
1-chome, Tama-ku, Kawasaki-shi, Kanagawa  
2140034  
JAPON



Date of mailing (day/month/year)  
19 April 2007 (19.04.2007)

Applicant's or agent's file reference  
SCPCT-94

**IMPORTANT NOTIFICATION**

International application No.  
PCT/JP2005/016281

International filing date (day/month/year)  
06 September 2005 (06.09.2005)

Applicant

SONY CHEMICAL &amp; INFORMATION DEVICE CORPORATION et al

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

**2. Transmittal of the copy of the translation to the designated or elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference SCPCT-94	<b>FOR FURTHER ACTION</b>	See item 4 below
International application No. PCT/JP2005/016281	International filing date ( <i>day/month/year</i> ) 06 September 2005 (06.09.2005)	Priority date ( <i>day/month/year</i> ) 04 October 2004 (04.10.2004)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant SONY CHEMICAL & INFORMATION DEVICE CORPORATION		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- |                                     |              |   |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the report   |
| <input type="checkbox"/>            | Box No. II   | Priority  |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited   |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application  |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application   |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

<p style="text-align: center;">The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. +41 22 338 82 70</p>	<p>Date of issuance of this report 11 April 2007 (11.04.2007)</p> <p>Authorized officer  <div style="text-align: center; font-weight: bold;">Masashi Honda</div></p> <p>e-mail: pt08.pct@wipo.int</p>
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# PATENT COOPERATION TREATY

TRANSLATION

From the  
INTERNATIONAL SEARCHING AUTHORITY

## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing  
(day/month/year)

Applicant's or agent's file reference

**SCPCT-94**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/JP2005/016281**

International filing date (day/month/year)

**06.09.2005**

Priority date (day/month/year)

**04.10.2004**

International Patent Classification (IPC) or both national classification and IPC

Applicant

**SONY CHEMICAL & INFORMATION DEVICE CORPORATION**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Date of completion of this opinion

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/016281

Box No. I      Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed
- ☐ the translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
- ☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
- ☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed
- ☐ filed together with the international application in electronic form
- ☐ furnished subsequently to this Authority for the purposes of search

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/016281

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	3-5	YES
	Claims	1, 2	NO
Inventive step (IS)	Claims	3-5	YES
	Claims	1, 2	NO
Industrial applicability (IA)	Claims	1-5	YES
	Claims		NO

2. Citations and explanations:

Document 1: JP 3500000 B2 (Sanyo Electric Co., Ltd.),  
23 February 2004, Paragraphs 0003, 0012, and 0017-0021; Fig. 4  
& JP 9-261883 A

Document 2: JP 2002-315202 A (NEC Tokin Corp.),  
25 October 2002, Paragraphs 0002-0004; Fig. 1 (Family: none)

Document 3: JP 2004-7942 A (Dialog Semiconductor GmbH),  
08 January 2004, Paragraphs 0002-0005; Fig. 1 & US 2003-99075 A1 & EP 1317042 A2 &  
DE 10158494 C

The inventions of claims 1-2 do not appear to possess novelty based on document 1 cited in the ISR. Document 1 (paragraph 0018) describes detection that one of the battery voltages V1 to V3 exceeds the set voltage Va.

The inventions of claims 1-2 do not appear to involve an inventive step based on documents 1 and 2 cited in the ISR. Document 2 (paragraph 0004) describes dividing the cells connected in series into a plurality of groups and monitoring the cell voltage of each group, and use of the technique described in document 2 for document 1 would be easy for a person skilled in the art.

The inventions of claims 3-5 are not described in any of the documents cited in the ISR and are not obvious to a person skilled in the art.

From the INTERNATIONAL BUREAU

**PCT**NOTIFICATION CONCERNING  
TRANSMITTAL OF COPY OF INTERNATIONAL  
PRELIMINARY REPORT ON PATENTABILITY  
(CHAPTER I OF THE PATENT COOPERATION  
TREATY)

(PCT Rule 44bis.1(c))

To:

TAJIME & TAJIME  
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19 April 2007 (19.04.2007)Applicant's or agent's file reference  
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PCT/JP2005/016281International filing date (day/month/year)  
06 September 2005 (06.09.2005)Priority date (day/month/year)  
04 October 2004 (04.10.2004)

Applicant

SONY CHEMICAL &amp; INFORMATION DEVICE CORPORATION et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

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International application No. PCT/JP2005/016281	International filing date ( <i>day/month/year</i> ) 06 September 2005 (06.09.2005)	Priority date ( <i>day/month/year</i> ) 04 October 2004 (04.10.2004)	
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Applicant SONY CHEMICAL & INFORMATION DEVICE CORPORATION			

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3.	This report contains indications relating to the following items:		
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	<input type="checkbox"/>	Box No. II	Priority
	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	<input type="checkbox"/>	Box No. IV	Lack of unity of invention
	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	<input type="checkbox"/>	Box No. VI	Certain documents cited
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4.	The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).		

<p style="text-align: center;">The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. +41 22 338 82 70</p>	<p>Date of issuance of this report 11 April 2007 (11.04.2007)</p> <p>Authorized officer</p> <p style="text-align: center; font-size: 1.2em;">Masashi Honda</p> <p>e-mail: pt08.pct@wipo.int</p>
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# 特許協力条約

発信人 日本国特許庁（国際調査機関）

REC'D 17 NOV 2005

WIPO

PCT

代理人

特許業務法人 田治米国際特許事務所

様

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ニューウェル生田ビル 201号室

PCT

国際調査機関の見解書  
(法施行規則第40条の2)  
[PCT規則43の2.1]

発送日

(日.月.年)

15. 11. 2005

出願人又は代理人

の書類記号 SCPCT-94

今後の手続きについては、下記2を参照すること。

国際出願番号

PCT/J P 2005/016281

国際出願日

(日.月.年) 06. 09. 2005

優先日

(日.月.年) 04. 10. 2004

国際特許分類 (IPC) Int.Cl.<sup>7</sup> H02H7/18 (2006.01), H02J7/00 (2006.01)

出願人 (氏名又は名称)

ソニーケミカル株式会社

1. この見解書は次の内容を含む。

- ☒ 第I欄 見解の基礎
- ☐ 第II欄 優先権
- ☐ 第III欄 新規性、進歩性又は産業上の利用可能性についての見解の不作成
- ☐ 第IV欄 発明の単一性の欠如
- ☒ 第V欄 PCT規則43の2.1(a)(i)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明
- ☐ 第VI欄 ある種の引用文献
- ☐ 第VII欄 国際出願の不備
- ☐ 第VIII欄 国際出願に対する意見

2. 今後の手続き

国際予備審査の請求がされた場合は、出願人がこの国際調査機関とは異なる国際予備審査機関を選択し、かつ、その国際予備審査機関がPCT規則66.1の2(b)の規定に基づいて国際調査機関の見解書を国際予備審査機関の見解書とみなさない旨を国際事務局に通知していた場合を除いて、この見解書は国際予備審査機関の最初の見解書とみなされる。

この見解書が上記のように国際予備審査機関の見解書とみなされる場合、様式PCT/ISA/220を送付した日から3月又は優先日から22月のうちいずれか遅く満了する期限が経過するまでに、出願人は国際予備審査機関に、適当な場合は補正書とともに、答弁書を提出することができる。

さらなる選択肢は、様式PCT/ISA/220を参照すること。

3. さらなる詳細は、様式PCT/ISA/220の備考を参照すること。

見解書を作成した日

04. 11. 2005

名称及びあて先

日本国特許庁 (ISA/J P)

郵便番号 100-8915

東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)

矢島 伸一

電話番号 03-3581-1101 内線 3568

5T

9060



## 第 I 欄 見解の基礎

1. 言語に関し、この見解書は以下のものに基づき作成した。

☒ 出願時の言語による国際出願

☐ 出願時の言語から国際調査のための言語である \_\_\_\_\_ 語に翻訳された、この国際出願の翻訳文  
(PCT規則12.3(a)及び23.1(b))

2. この国際出願で開示されかつ請求の範囲に係る発明に不可欠なヌクレオチド又はアミノ酸配列に関して、  
以下に基づき見解書を作成した。

a. タイプ ☐ 配列表

☐ 配列表に関連するテーブル

b. フォーマット ☐ 紙形式

☐ 電子形式

c. 提出時期 ☐ 出願時の国際出願に含まれていたもの

☐ この国際出願と共に電子形式により提出されたもの

☐ 出願後に、調査のために、この国際調査機関に提出されたもの

3. ☐ さらに、配列表又は配列表に関連するテーブルを提出した場合に、出願後に提出した配列若しくは追加して提出した配列が出願時に提出した配列と同一である旨、又は、出願時の開示を超える事項を含まない旨の陳述書の提出があった。

4. 補足意見：

第V欄 新規性、進歩性又は産業上の利用可能性についてのPCT規則43の2.1(a)(i)に定める見解、それを裏付ける文献及び説明

1. 見解

新規性 (N)	請求の範囲 3-5	有
	請求の範囲 1, 2	無
進歩性 (IS)	請求の範囲 3-5	有
	請求の範囲 1, 2	無
産業上の利用可能性 (IA)	請求の範囲 1-5	有
	請求の範囲	無

2. 文献及び説明

文献 1 : JP 3500000 B2 (三洋電機株式会社) 2004.02.23, 段落 [0003], [0012], [0017]-[0021]、第4図 & JP 9-261883 A

文献 2 : JP 2002-315202 A (エヌイーシートーキン栃木株式会社) 2002.10.25, 段落 [0002]-[0004]、第1図 (ファミリーなし)

文献 3 : JP 2004-7942 A (ディアロック・セミコンダクター・ゲーエムベーハー) 2004.01.08, 段落 [0002]-[0005]、第1図 & US 2003-99075 A1 & EP 1317042 A2 & DE 10158494 C

請求の範囲 1-2 に係る発明は、国際調査報告で引用された文献 1 により新規性を有しない。文献 1 の段落 [0018] には、各電池電圧 V1~V3 のいずれかが設定電圧 Va 以上となることを検出することが記載されている。

請求の範囲 1-2 に係る発明は、国際調査報告で引用された文献 1 と文献 2 とにより進歩性を有しない。文献 2 の段落 [0004] には、直列接続したセルを複数のグループに分割して、各グループのセル電圧を監視することが記載されており、文献 1 において、文献 2 に記載された技術を用いることは、当業者にとって容易である。

請求の範囲 3-5 に係る発明は、国際調査報告に引用されたいずれの文献にも記載されておらず、当業者にとって自明なものでもない。